2005 NO

notice of violation/NOV) for failing to meet certain a mandatory language requirements stated in regulation 401 mandatory language requirements stated in regulation 401 KAR 8075 regarding the water quality report for 2004. This was not a threat to the public's safety as there were no MCL's exceeded relating to any water quality monitoring parameter. This was a reporting error only. Additional language was reached to describe our source water, lead and copper testing results, and other detected contaminants, as well as required language for immunor-compromised individuals. All the corrections needed are reflected in this year's report. If you need further information regarding this NOV, you can encounted Kevin Crump at 987-2118 during normal business hours.

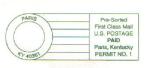
[CRYPTOSPORIDIUM]

Cryptosporidium is an intestinal parasite that is sometimes

"THOROUGHBRED CAPITAL OF THE WORLD"

The City of Paris

The City of Paris Combined Utilities 525 High Street Paris KY 40361



WATER QUALITY
REPORT FOR

## WHERE DOES OUR WATER COME FROM?

water, as its sole source of drinking water. Stoner Creek originates in Clark County as does Strodes Creek which is a major tributary of Stoner Creek. Both are our raw water source with a total gross storage of 378 supply is relatively good compared to some supplies as there is not a lot of industrial pollution. However, we part of the Licking River drainage basin. Our raw water our dams were raised in the 1950's. the City of Paris controls on Stoner Creek. There have turn creates treatment problems. We have four dams on from the runoff can cause heavy algae bloom which in are plagued by runoff from farm land. The fertilizers not been any major problems with drought since two of million gallons. Plant personnel maintain the dams that The City of Paris uses Stoner Creek.



### HOW IS OUR WATER TREATED?

Water from Stoner Creek is pumped into the rapid mix by the raw water (low service) pumps. It is pumped in at a rate of 2,100 gallons per minute. This llow rate is important in that all detention times carbon are added and thoroughly mixed with the creek throughout the treatment process are based on this flow conditions. Detention time in this basin is one (1) rate. Here, Dosages will vary depending on the water alum, lime, sodium permanganate and

the water flows through, the chemicals reacting with the particulate matter starts to form what is known as floc it is slowly mixed by two (2) mechanical paddles. be dissolved in the water as well as oxidizing other organic materials present. The detention time for this sodium permanganate is reacting during this time to mass as they continue through this basin. pasin is forty (40) minutes. usintection at the effluent (exit) of this basin. It then flows into the coagulation basin where These particles continue to grow in size and metals (example: iron, manganese) that may Chlorine is added for Also, the

The water then flows into the settling basins where the floc particles settle to the bottom of these four (4) hours. letention time of the settling basins is approximately The settled water flows to the filters. The

andractic as the filtering medium. The filters are equipped with rate of flow gauges and controllers that maintain a constant and balanced flow through each filter. These filters retain any particles that may not ammonia and chlorine. Caustic soda is added to help control the pH (pH indicates whether the water is an a rate of two (2) gallons per square foot per minute. Chemicals added in the filter effluent are fluoride have been removed in the settling basins. They filter at media rapid sand filters. There are four (4) lilters that are called dual They utilize both sand and

clearwells were it is stored on site. The treatment process is complete other than the contact time with the post chlorine or chloramines which is added after the filters. By the time the finished water reaches the high When the water leaves the lifters, it enters the

> service pumps, the chlorine contact time is complete and the water is then pumped into the distribution system where it reaches the City of Paris customers. Water is stored in a standpipe and the two (2) elevated tanks that are part of the distribution system. Samples are taken daily and tested in our lab to help ensure the quality of

the end product. Alum - The chemical name is aluminum sulfate. This is used to help form floc which helps settle the particulate motter out of the CHEMICALS USED

helps provide additional alkalimity for the formation of matter out of the water nme - The chemical name is calcium hydroxide.

floc and helps to adjust the pH of the water. nactivating harmful bacteria This is used to disinfect the water by

Sodium Permanganate - This is used to oxidize metals such as iron and/or manganese and other organies. ilso helps control taste and odor problems.

activated carbon) This is added to help reduce taste and Powdered Carbon - Also called PAC. odor problems through adsorption. (powdered

Caustic Soda - The chemical name is sodium hydroxide it's sole purpose is to prevent tooth decay. This is used occasionally for pH control luoride - The chemical name is hydrofluosilicic acid

combines with chlorine to form chloramines Ammonia - Also called anhydrous ammonia.

### IS OUR DRINKING WATER SAFE?

the plant and in the distribution system to ensure proper treatment. We also send water samples to our contracted certified lab to check for over 100 possible descriptions and explantions. (see NOV section) regarding the water quality report for 2004. We failed to use the mandatory language for certain required brochure. Our system did receive an NOV for 2005 contaminants which are listed with their results in this Yes. Our drinking water is monitored daily at

### Water Quality Information

Turbidity (NTU)	TOC* (Total Organic Carbon)	Haloacetic Acids (ppb)	Total Trihalomethanes (ppb)	Total Coliform (colonies/100mL)	Combined Radium (pC//L)	Nitrate (ppm)	Fluoride (ppm)	Chlorine (ppm)	Chloramines (ppm)	Barium (ppm)	Arsenic (ppb)	Substance
(95% of monthly readings <0.3)	7	60	80	5% Samples Positive	5	10	4	MRDL - 4	MRDL - 4	12	50	MCL
NA	N/A	N/A	NA	NA	0	10	4	MRDLG - 4	MRDLG - 4	12	0	MCLG
0.69-0.012	0.16 - 2.06	27 - 86	30 - 96	0%	BDL - 1.0	<0.06 - 1.62	1.35 - 0.86	2.8 - 0.4	3.5 - 1.6	0.019 (one sample)	(one sample)	High-Low Range Detected
100% of samples <1.0	1.52 (Highest RAA)	(Highest RAA)	(Highest RAA)	0	<0.78	0.76	1.16	1.78	2.26	0.019	1	Annual Average
NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	Violations
Soil runoff.	Naturally present in the environment.	By-product of drinking water disinfection.	By-product of drinking water disinfection.	Naturally present in the environment.	Erosion of natural deposits.	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.	Water additive used to control microbes.	Water additive used to control microbes.	Discharge of drilling waste; discharge from metal refineries; erosion of natural deposits.	Erosion of natural deposits; runoff from orchards, runoff from glass and electronics production waste.	Source

Corrosion of household plumbing systems; erosio of natural deposits	NONE	0.33 - 0.005 NONE	0	0.13	1.3	1.3AL	Copper (ppm)
Corrosion of household plumbing systems, erosion of natural deposits	NONE	8 - <1	0	w	0	15AL	Lead (ppb)
Source	Violations	High - Low Range Detected	Number of samples above Action Level	90th Percentile	MCLG	MCL	Substance

DC's are calculated figuring a ratio of actual percentage removed divided by require regretter than or equal to 1.0. removed. To be in compliance, the ratio

### ABBREVIATIONS

PB. Parts Per Billion

ARDIJ. Akainmum Residatal Distillectural Read

ARDIJ. Akainmum Residatal Read

TI. Nephelometric Turbidity Units

TI. Teatment Technique — equal to < 1.58 Than Criticaler Than

ARDIJ. Akainmum Contaminatural Level Read-Rutaring Aurural Average

MCLI. Akainmum Contaminatural Level Goal NOV-Notice of Violation

SWTIR - Surface Water Treatment Rule

DEFINITIONS

MCLG - Maximum Contammant Level Goal, or the level of a contaminant in drinking water below which there is no known or expected risk to insulh. MCL. - Maximum Contammant Level or the highest level of a contaminant to a close to the first series of the contaminant to a close to the MCLG was a close to the MCLG was because the singular to the contaminant had a close to the MCLG was consider as when the series of the contaminant which were are to show the level of MRDLC - Maximum Residual Disinfectant Goal, or the level of MRDLC - Maximum Residual Disinfectant Goal, or the level of MRDLC - Maximum Residual Disinfectant of the level of MRDLC - Maximum Residual Disinfectant of the level of MRDLC - Maximum Residual Disinfectant of the level of MRDLC - Maximum Residual Disinfectant of a contaminant which when exceeded, ingages treatment or other requirements which a water as stem must follow.

The Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.

FULL - Flocurities per Liter, a measure of reduition.

VOV - Volutions issued by the District of Water.

KAA - Running annual average is figured quarterly using the average of the most recent quarter added with the threef3) previous quarters and divided by four(4).

Most samples are the most recent results through 12.31.2005 and in accordance with administrative regulation 401 K.JR. Chapter 8. Testing compliance periods are in the celly years periods and are part of a mixely year cycle which runs 11.2002 to 12.31.2010.

SOURCE WATER ASSESSMENT AND PROFECTION PLAN

[SMAP]

Following is a summary of the Paris system's susceptibility to
communication, which is part of the completed Source Water Assessment
Protection Plans (GWAPP). The completed Source Water Assessment
Protection Plans (GWAPP). The completed Source Water States and
Planse call Kevin Crump at the Paris. Water Planta in 987-2118 to misk
planse and Kevin Crump at the Paris. Water Planta in 987-2118 to misk
planse to the machine to the third susceptibility of the Paris Water States.

However there are a few areas of high concern. Several highway bridges in
the immediate civinity of the makes analy pose a potential threat to the water
supply. An accidental release of comminimation into the violence of the protection of the parish of the sease of contamination from any of these sites could
reach the intake. The same is true for radioada that occur between K (627)
and KY 1678 near Kamade, Creek. In addition, areas of row crops,
unusingal seaser lines. A KPDES permitted discharges and a wrist
guntational season of the partitions and additions and other potential
communicates concern which the guder watershed that
communicate sources of moderate concern which the guder watershed that
communicate sources the potential for the release of contaminations with in
the area. These potential contamination sources include verything first
sprite systems, to major roads, to hazarcdous chemical users.

# WHAT IS THE REASON FOR THIS REPORT?

The 1996 Safe Drinking Water Act Amendments require that, beginning in October 1999, all community water systems provide customers with an annual report on the quality of their drinking water.

# WHY ARE THERE CONTAMINANTS IN THE

risk. More information about contaminants and potential health risk can be obtained by calling the Environmental Protection Agency's Safe Drinking Water does not necessarily indicate the water poses a health reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants drinking water regulations do. the Food and Drug Administration and must provide the same level of protection against contaminants as public Hotline. (800-426-4791) Bottled water is governed by Drinking water, including bottled water, may

radioactive material, and can pick up substances resulting from the presence of animals or from human hottled water) includes rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the water include: naturally-occurring minerals and, in some cases, activity. surface of the land or through the ground, it dissolves Contaminants that may be present in source The sources of drinking water (both tap and

- septic systems, agriculture livestock operations and wildlife, example: Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful bacteria may be bacteria, which may come from sewage treatment plants Microbial contaminants, such as viruses and
- wastewater discharges, oil and gas production, mining or farming Example: Some people who drink water containing barium in excess of the maximum increase in their blood pressure. contaminant level over many years could experience and urban stormwater runoff, industrial or domestic metals, which can be naturally-occurring or result from Inorganic contaminants, such as salts and
- volatile organic chemicals, which are by-products of Organic contaminants, including synthetic and

industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and residential uses. Example: Some people who drink water contaming atrazine well in excess of the maximum contaminant level over many years could reproductive difficulties. experience problems with their cardiovascular system or

- radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the maximum contaminant level over many years may have Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities. Example: Certain an increased risk of getting cancer. minerals are radioactive and may emit a form of
- from a variety of sources such as agriculture, stormwater runoff, and residential uses. This is included in synthetic organic contaminants and the unregulated contaminants · Pesticides and herbicides, which may come

## SHOULD I TAKE SPECIAL PRECAUTIONS?

who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about their health care providers. I:PA/CDC guidelines on appropriate means to lessen the risk of infection by contaminants in drinking water than the general population. Immuno-compromised persons such as (800-426-4791) Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline persons with cancer undergoing chemotherapy, persons Some people may be more vulnerable to

also has three certified standby operators who work in other departments within the city. Additional duties of Water for microbiological analysis. In addition, the city laboratory technician to perform microbiological analysis in the plant as well as the distribution system. The laboratory is certified with the State Division of GENERAL SYSTEM INFORMATION

The plant is staffed by five full time operators with hold both reatment and distribution licenses with the State of Kentucky. There is also a full time

> are operating about 50% of our total treatment capacity. A risk management plan, as required by law, was created in 1999 and updated in 2004 for the water distribution operators, all are State certified. Average usage is 1.5 million gallons per day and the plant's total treatment capacity is 3.0 million gallons per day. We storage tanks and one standpipe, our distribution system has a total storage of 2.45 million gallons of water. There is approximately 150 miles of pipe in the the operators are; collecting distribution samples and servicing all valves and related equipment at the standippe and the elevated tranks as well as in-plant maintenance. Paris has approximately 4,618 water member of the Bluegrass Water Supply Commission, a group consisting of nine regional municipalities that are working to resolve central Kentucky's water supply occur. The City of Paris Combined Utilities is a member of the American Water Works Association and treatment plant in the event that a chlorine leak should distribution system. The system employs 5 full time meters with an estimated total population served of 15,239 as of December, 2005. With two elevated Wastewater Operators Association. Paris is also a it's operators are members of the Kentucky Water and

### HOW CAN I BECOME MORE INVOLVED?

commissioners. If you have billing or service questions, help can be obtained by calling the city office at 987-2110. Technical questions about water treatment means that it is owned by the City of Pans. It is managed by the plant superintendent who reports to the Municipal Center, 525 High Street. otherwise announced. The meetings begin at 7:00 p.m and are held at the commission chambers of the Paris 987-2100. The city commission meetings are held ever on weekends or holidays, call central commun 987-2118. If you need emergency service after hours or can be directed to the plant superintendent by calling city manager who in turn reports to the Mayor and city second and fourth Tuesdays of the month unless The water system is municipally owned which

Traduzcalo o hable con alquien que lo entienda bien Este informe contiene informacion muy importante